

**AMENDMENTS TO THE CLAIMS**

1. (Original) A mobile terminal, comprising:  
a terminal body;  
an antenna connected to a high frequency signal source within the terminal body; and  
a grounding means connected to a ground voltage source within the terminal ~~body~~body,  
and  
wherein the antenna includes:  
an antenna coil to receive a high frequency signal power from the high frequency signal  
source;  
a conductive inner core electrically connected to the high frequency signal source and the  
antenna coil;  
a core through which a conductive inner core penetrates, of which the surface is insulated  
from the conductive inner core, and which has a conductive surface electrically connected to the  
ground voltage source; and  
at least one grounding coil connected to the ground voltage source through the  
conductive surface of the core.
2. (Original) The mobile terminal according to claim 1, wherein the antenna is a monopole antenna.
3. (Original) The mobile terminal according to claim 1, wherein the grounding means is exposed to the outside of the terminal body.
4. (Canceled)
5. (Original) The mobile terminal according to claim 1, wherein the grounding means is embedded within the terminal body.

6. (Original) The mobile terminal according to claim 5, wherein an electro magnetic interference EMI intercepting metal shield is formed in a space other than a space where the grounding means is formed in the inside of the terminal body.

7. – 12 . (Canceled)

13. (Currently Amended) The mobile terminal according to ~~claim 12~~, claim 1, wherein each linear length of the antenna coil and the grounding coil is  $1/4$  of the wavelength of the electric wave.

14. – 16. (Canceled)

17. (Currently Amended) An antenna of a mobile terminal, comprising:  
an antenna coil to receive a high frequency signal; and  
a grounding means having a length of  $1/4$  of a wavelength of an electric ~~wave~~, wave;  
a first core on which the antenna coil is wound;  
a conductive inner core electrically connected to one end of the antenna coil to receive  
the high frequency signal; and  
a second core through which the conductive inner core penetrates and of which the  
surface is insulated from the conductive inner core, and  
wherein the at least one grounding coil is wound on the surface of the second core.

18. – 19. (Original)

20. (Currently amended) The antenna of a mobile terminal according to ~~claim 18~~, claim 17, further comprising:

a core through which the conductive inner core penetrates, which remains to be insulated from the conductive inner core and which has a conductive surface connected to the ground voltage source, and

wherein one end of the at least one grounding coil is connected to the surface of the core.

21. (Original) An antenna of a mobile terminal, comprising:

an antenna coil;

a first core on which the antenna coil is wound;

a conductive inner core electrically connected to one end of the antenna coil to supply a high frequency signal to the antenna coil;

a second core through which the conductive inner core penetrates and of which the surface is insulated from the conductive inner core; and

at least one grounding coil wound on the second core to receive a ground voltage.

22. (Original) An antenna of a mobile terminal, comprising:

an antenna coil;

a conductive inner core electrically connected to one end of the antenna coil to supply a high frequency signal to the antenna coil;

a core through which the conductive inner core penetrates;

a grounding surface formed on the surface of the core to receive a ground voltage;

at least one grounding coil connected to the grounding surface, and

wherein one end of the at least one grounding coil is connected to the grounding surface.